

Title (en)  
Pitch reducing device for ships

Title (de)  
Stabilisierungsgerät zur Verminderung des Stampfens eines Schiffes

Title (fr)  
Dispositif de stabilisation anti-tangage pour navire

Publication  
**EP 0754618 A1 19970122 (FR)**

Application  
**EP 96401562 A 19960715**

Priority  
FR 9508856 A 19950721

Abstract (en)  
The stabiliser includes hydroplanes (2a, 2b) which project on horizontal, or downward inclined axes from bearings mounted in the submerged bow bulb. To control pitching only, a controller, reacting to sensor signals, applies common angles of incidence via a hydraulic or electrical actuator. The surfaces are e.g mounted on the same transverse shaft. The equipment may additionally counteract rolling, with independently operated control surfaces given opposing angles of incidence. The bulb compartment (3) can be divided centrally, with hydroplane assemblies swivelling on vertical axes (ZZ') independently retractable in fair weather or for berthing (2b). On striking a submerged obstacle, an assembly, latched (13a, 14a, 15a) when extended, is freed (13b, 14b, 15b) and retracts (12b). Single or paired auxiliary trailing edge surfaces (6) optimise water flow and thrust.

Abstract (fr)  
Dispositif de stabilisation anti-tangage pour navire, caractérisé en ce qu'il comporte deux ensembles d'ailerons (1a, 1b) disposés à la partie avant immergée de la coque (4) de part et d'autre d'un caisson (3) formant un bulbe, en ce que les ensembles d'ailerons sont portés par des axes ou mèches d'orientation (5, 5a) et en ce que les ailerons sont inclinés à partir de consignes d'asservissement ( $\theta_1, \theta_2$ ) élaborées dans un calculateur (16) à partir d'informations provenant de capteurs (17, 18, 19 ...) pris parmi des capteurs de vitesse angulaire de tangage, de roulis, d'accélération verticale ou de mesure d'incidence des filets d'eau. <IMAGE>

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IPC 8 full level  
**B63B 39/06** (2006.01)

CPC (source: EP)  
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Citation (search report)  
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